

“Mass” Casualties in training accident

Robert Woodbury M.D.

LCDR MC USN

General Surgeon - FST 5

Amphibious Ready Group

- USS Bon Homme Richard
- USS Pearl Harbor
- USS Denver

Bon Homme Richard Medical

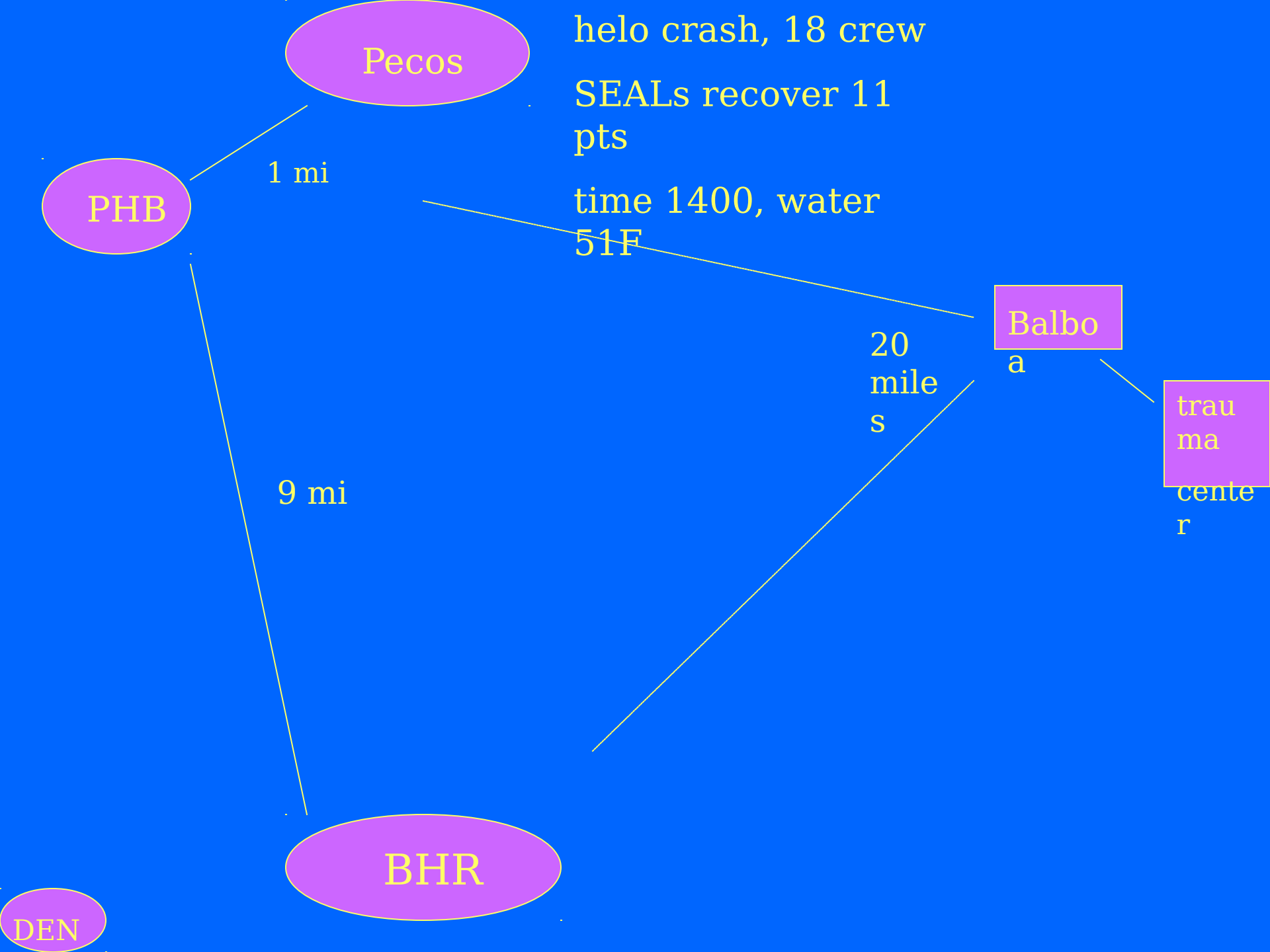
- New ship, accelerated workup cycle
- OR x4, BDS/tx room, oph/ENT room,
- 13 bed ICU, 50 bed ward
- lab/xr/blood/pharm
- *CATF = SMO*
- ship - GMO, IDC, HMs
- FST 5
 - surgeon, family MD, nurse anesthetist
 - ICU RN, OR RN, admin MSC
 - anesth tech, OR techs, HMs
 - integrated into ships company
- mass casualty drills

Casualties generated
12/99 combined surface helo raid

SEALS extraction
initial report

CATF Surgeon
initial assessment of casualties and resources
initiate response

- Unclear initial data and communications
- proximity of PHR vs BHR
- cold exposure
- resources
- standard of care ?



PHR as initial receiving

Response team
from BHR to PHR

Triage

Flight
surgeon
HMs
gear

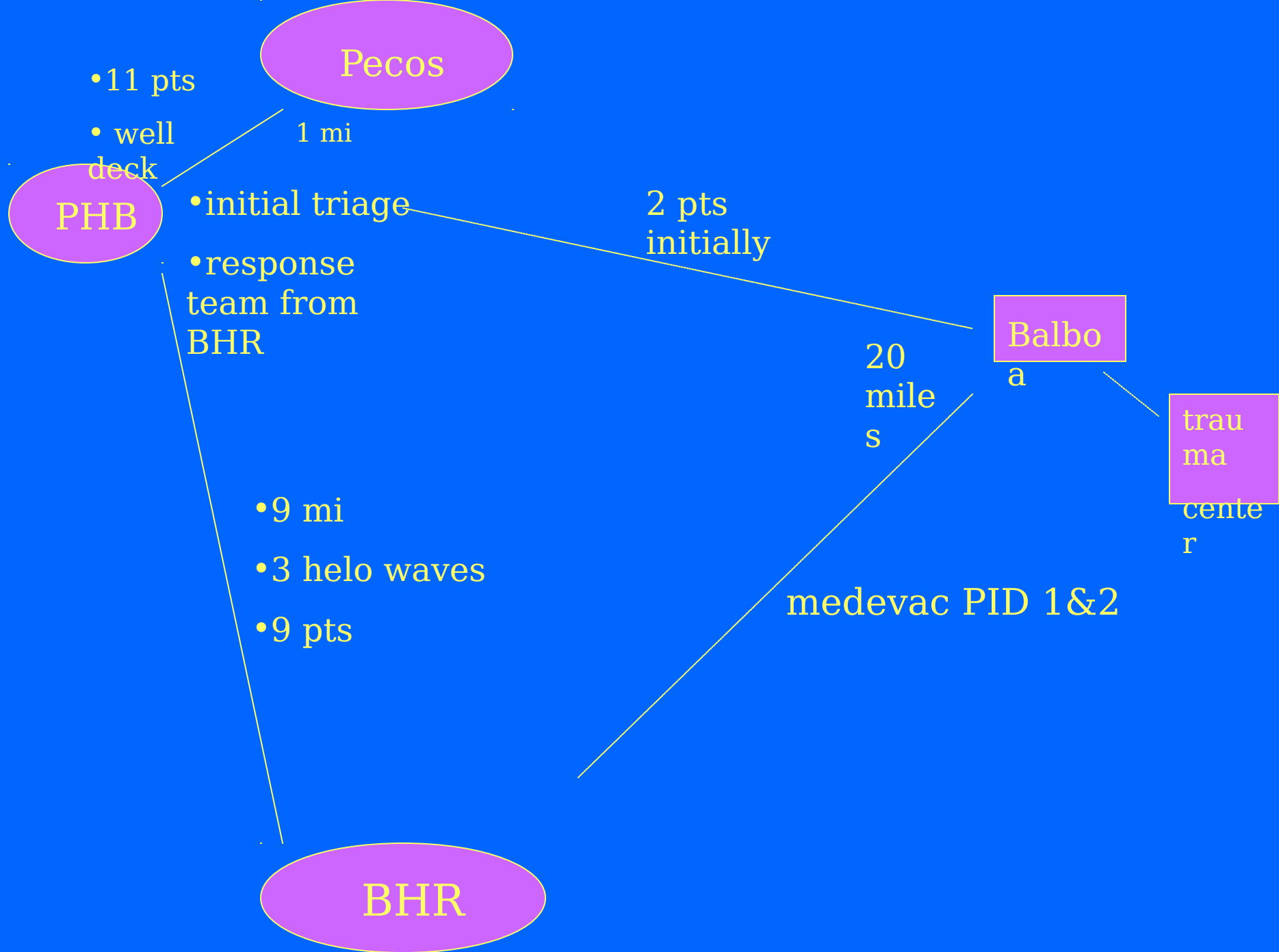
2 patients to Balboa

Most severe injuries
CH 46 cannot land at
trauma center

9 patients to BHR

3 waves of helo
medevac





Flight deck/hanger
initial triage and tx

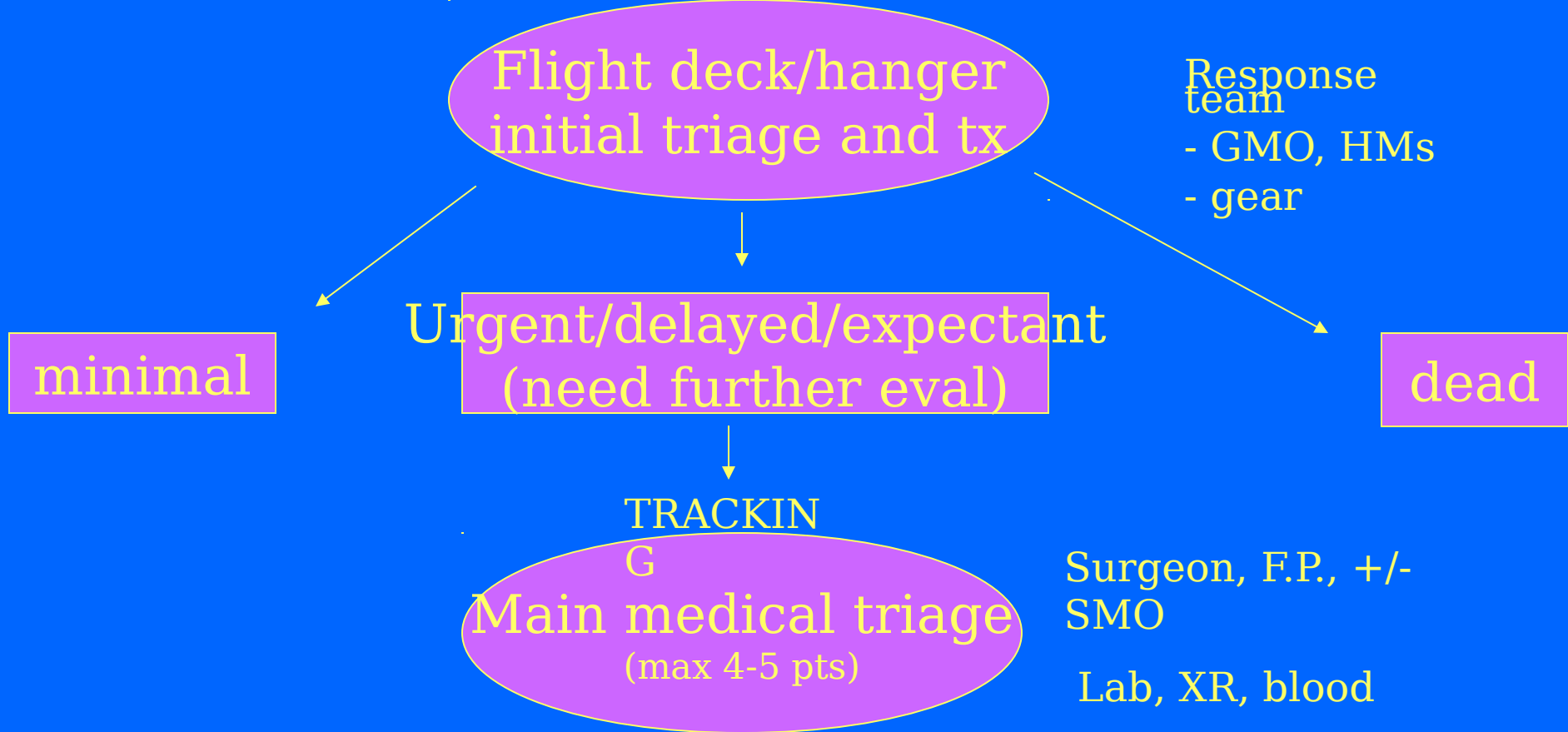
```
graph TD; A([Flight deck/hanger  
initial triage and tx]) --> B[minimal]; A --> C[Urgent/delayed/expectant  
(need further eval)]; A --> D[dead];
```

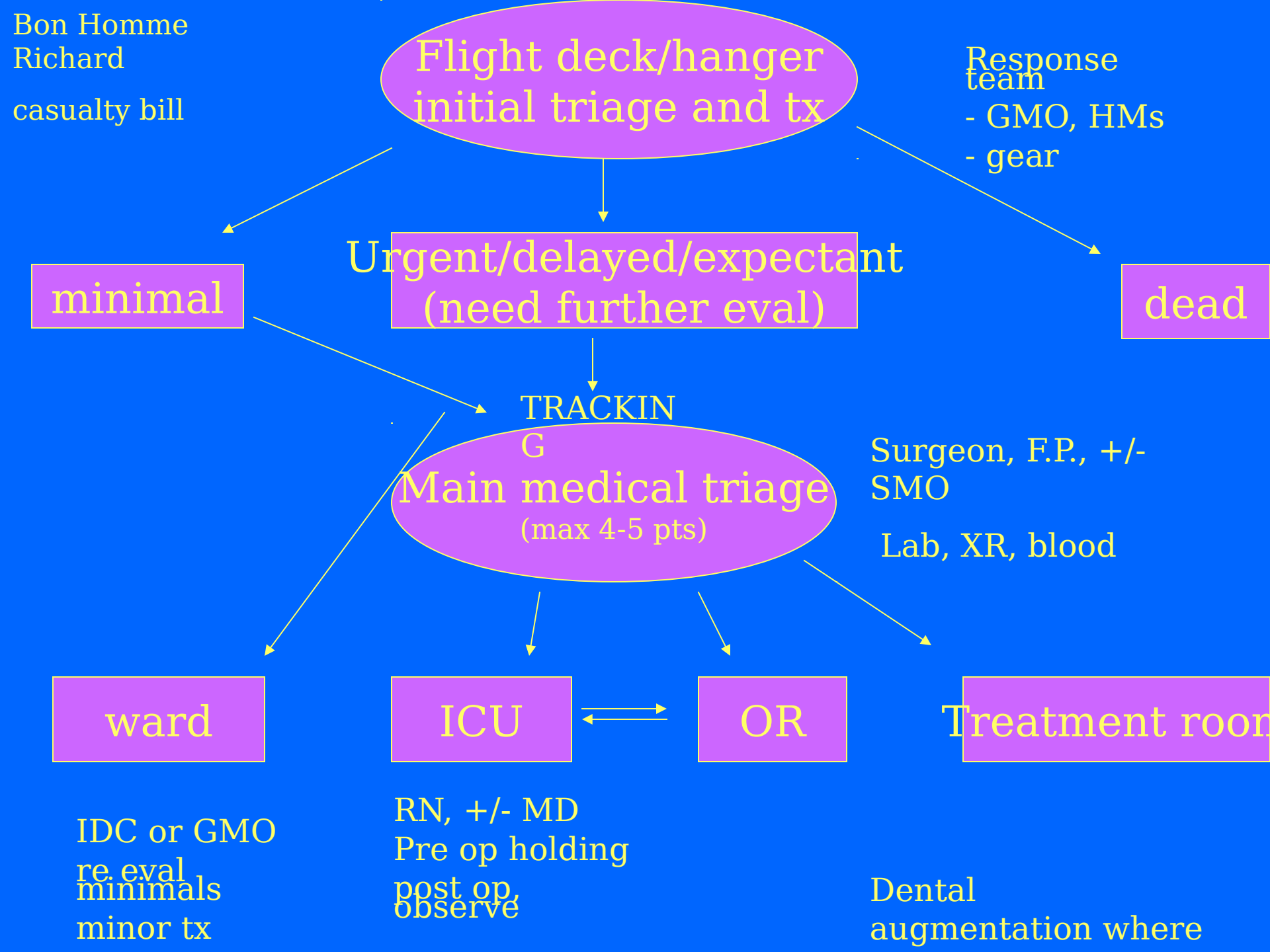
Response team
- GMO, HMs
- gear
- surgeon initially

minimal

Urgent/delayed/expectant
(need further eval)

dead





Injury List

- Liver laceration - non operative (initial Balboa)
- lumbar fracture (initial Balboa)
- rib fracture, pneumothorax, splenic laceration - non operative (Balboa pid#`1)
- jaw contusion
- fibula fracture
- complex labial buccal laceration (OR)
- complex wound of upper arm, elbow, forearm, complex chin laceration (OR)
- knee MCL tear
- forehead laceration
- periorbital contusion
- no injuries
- *hypothermia
- *collateral severe ankle disruption

Other concerns

- Communication
 - simple
 - single lines with backup plan
 - accuracy
- crowd control (esp senior officers)
- digital XR - accuracy, burn out
- standard of care
- helo medevac to civilian trauma centers